[redacted]

ACTIVE

4 March 1960

STATINTL

[redacted]
P. O. Box 974
Washington 4, D. C.

Subject: Monthly Report - Rectifier Project, T.O. 2

Enclosures: (1) Report of Technical Progress
(2) Estimated Cost Status
(3) Work Schedule and Progress Chart
(4) Phase Diagrams for Reader, Printer and Control Console

Dear Sir:

The above listed enclosures represent the state of progress of the subject project as of 1 March 1960. You will note on Enclosure (3) that the overall work effort progressed as scheduled during the month of February.

An information copy of this report is being submitted directly to the Contracting Officer.

Very truly yours,

STATINTL

[redacted]
Manager, Contract Administration

BJW/pb

Declass Review by NIMA/DOD

1 March 1960

PHOTOGRAPHIC RECTIFIER

Report of Technical Progress

Since assignment of a new engineer to the video and sweep circuit, redesign of the latter has been completed and it has been bread-boarded and tested using the engineering model circuitry. The schedule for completion of this effort, as amended by the last report, appears to be practical. STATINTL

STATINTL Previous mention was made of the possibility that the [redacted] Inductosyn might be substituted for the film index transducer. A final decision was reached to select this alternate and the Inductosyn is presently scheduled for delivery to [redacted] about the middle of March.

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STATINTL The problem in procurement of the [redacted] F/2 lens discussed at last reporting has been satisfactorily resolved. A firm quotation has been received from [redacted] and an order will be placed next week. However, since delivery of these lenses will be a minimum of (4) four months, it may be necessary to complete the first rectifier unit using the [redacted] F/2 lens suggested previously. In this event, these units would be replaced upon receipt of the [redacted] lenses. STATINTL

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One of our vendors failed to produce a satisfactory transformer. It was deemed desireable to cancel this order completely in lieu of a new design at some added cost. This design has been completed and is presently undergoing tests. An additional problem still to be solved in this area is to determine whether the new design can be applied in the relay control system.

The automatic dodging circuitry represents the only major function remaining to be designed. Preliminary investigation indicates that a magnetic memory will provide the best storage for dodging data on retrace. No insurmountable problems are visualized in this area.

During the month of March it is anticipated that assembly of the reader will be completed and testing will commence. The printer should be nearing completion around the middle of April. Progress on the control console is expected to advance more rapidly during the next few weeks as a result of the application of extra effort to this unit. All purchased parts for the first control console should be on order by the end of March.

[redacted] STATINTL

System Manager

Enclosure (1)

PHASE DIAGRAM FOR READER

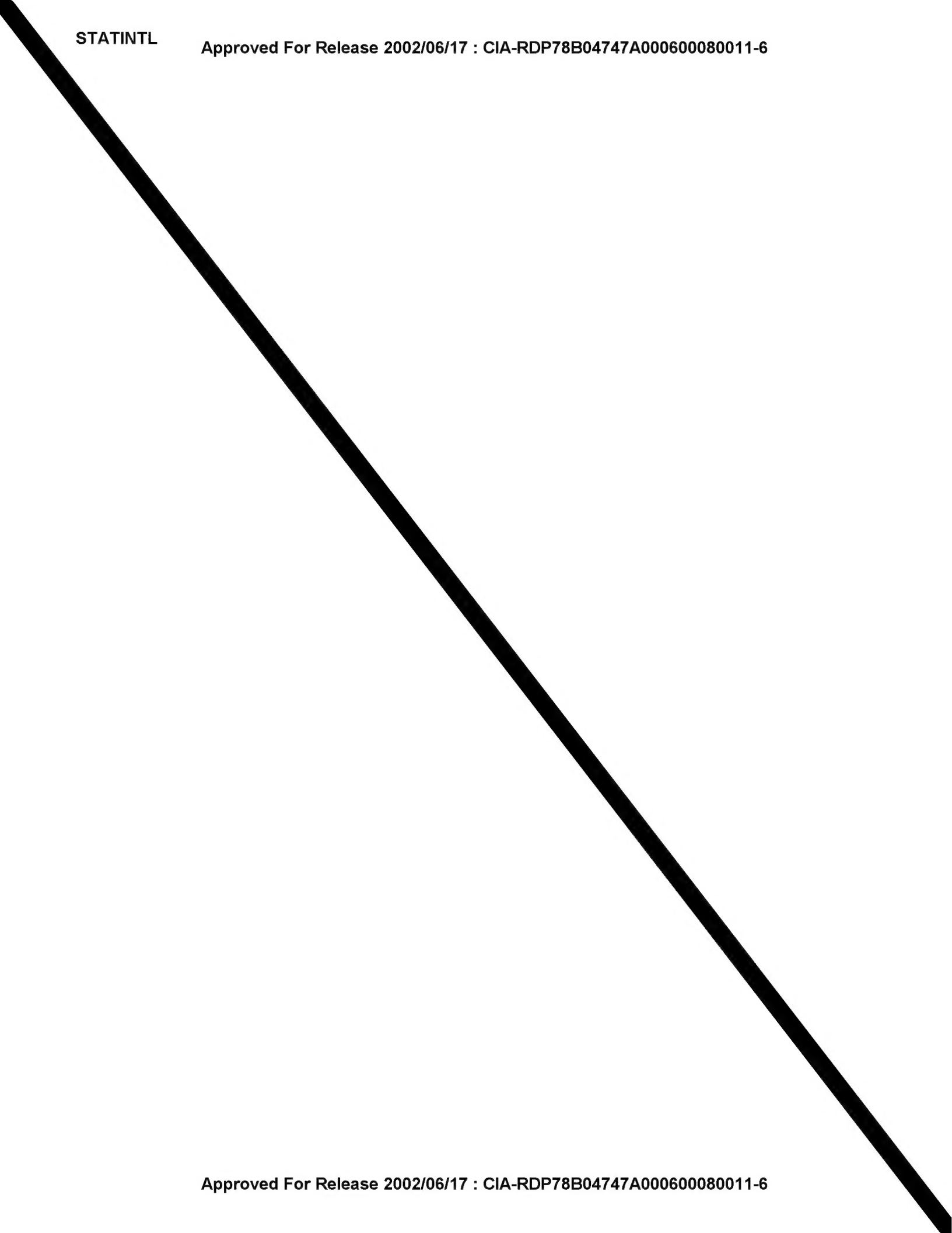
ASSEMBLY	PRE DESIGN	DESIGN COMPLETE	RELEASED	PURCHASED PARTS	FABRICATION	ASSEMBLY	TEST AND REMARKS
Structure	Complete	Complete	Complete	Complete	One Complete	In Work	
C.R.T. Housing	Complete	Complete	Complete	Complete	One Complete	One Complete	
C.R.T. Elect Parts	Complete	Complete		One Complete	One Complete	One Complete	
Track Assembly - X Drive	Complete	Complete	One Complete	One Complete	One Complete	In Work	
Lead Screw	Complete	Complete		One Complete	One Complete	In Work	
P.M.T. Drive	Complete	Complete	Complete	One Complete	One Complete	In Work	
Platen and Index Assembly	Complete	Complete	One Complete	One Incomplete	One Complete	In Work	Reticles and Align. Sys not complete
Transducer	In Work						
P.M.	Complete	Complete	Complete	Complete	Complete	One Complete	
Valve - Pneu. and Vac.	Complete	Complete	Complete	Complete	All Ordered	All Ordered	
Doors	Complete	Complete	Complete	8 Ordered	In Work		
X Deflection Amp	Complete	Schem. Complete 11 Layout Start		Complete	2 Complete		
Y Deflection Amp	Complete	Schem. Complete 11 Layout Start		Complete	2 Complete	One Complete	
Focus Current Regulator	Complete	Complete	Complete	Complete	One Complete	One Complete	
1 KV. (for P.M.)	Complete	Complete	Complete	One Complete	Complete	One Complete	
20 KV.	Complete	Complete	Complete	One Complete	Complete	One Complete	
Optisyn Pre - Amp	Complete	Complete	Complete	Ordered	Complete	In Work	

PHASE DIAGRAM FOR PRINTER

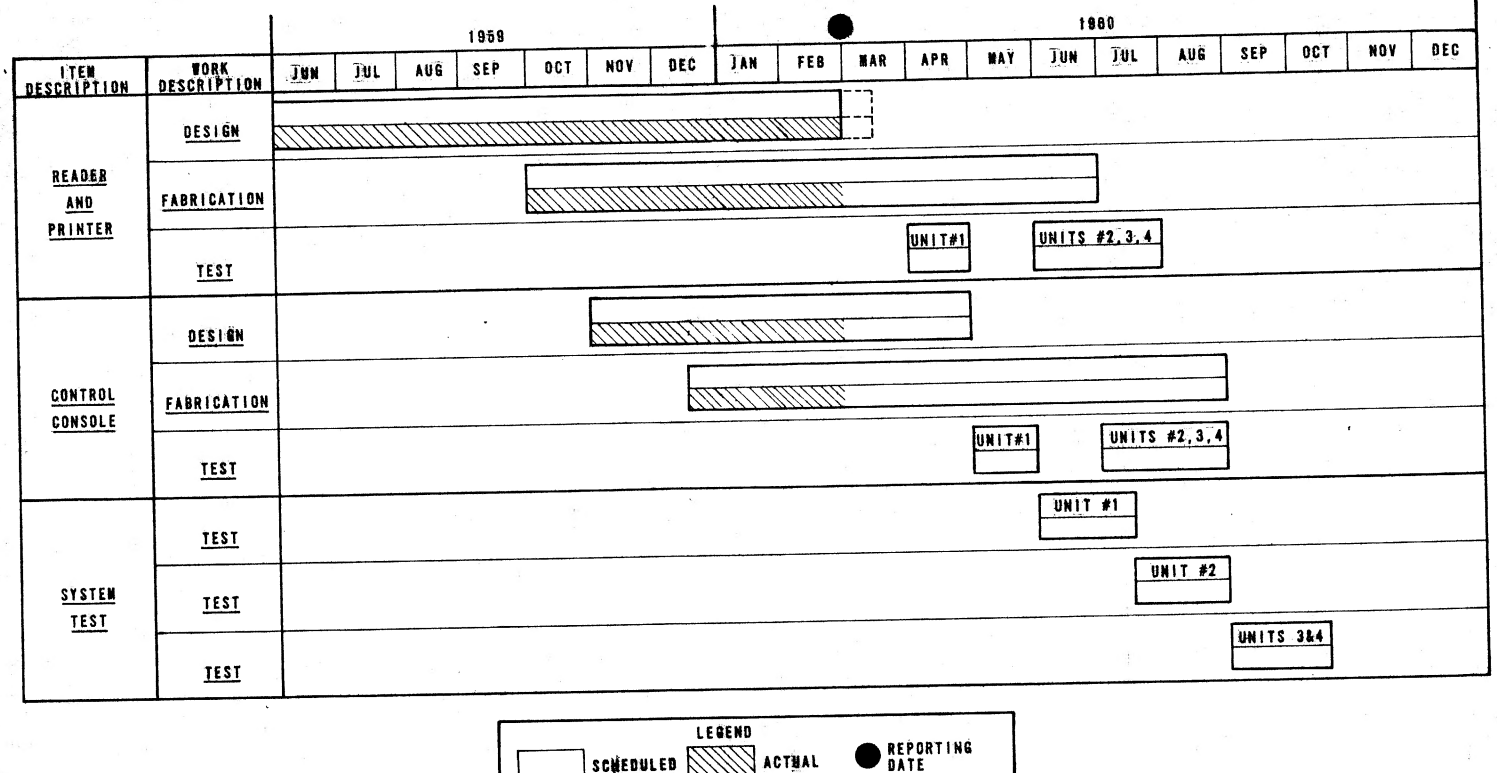
ASSEMBLY	PRE DESIGN	DESIGN STATUS	RELEASED	PURCHASED PARTS	FABRICATION	ASSEMBLY	TEST AND REMARKS
Structure	Complete	Complete	Complete	Complete	In Work		
Crt. Housing	Complete	Complete	Complete	In Work	One Complete		
Crt. Elect. Parts	Complete	Complete	In Work	One Complete	One Complete		
Track Assembly - X Drive	Complete	Complete	One Complete	One Complete	One Complete	In Work	
Lead Screw					One Complete	In Work	
Drive Assembly - "X"	Complete	Complete	One Complete	One Complete	In Work		
Film Index	Complete	Complete	Complete	Complete	Complete	1 Assembly	A. W. Syn. Mtrs. Ordered Cycled 10000 x
Lens Board	Complete	Complete	Complete	In Work	In Work		
Valve (Pneu & Vac)	Complete	Complete	Complete	Complete	Complete	One Complete	Cycled 2000 Times
Platen	Complete	Complete	One Complete	Complete	One Complete	One Complete	
Cassettes	Complete	Complete	2 Complete	Complete	Two Complete	Two Complete	
Doors	Complete	Complete	Complete	Ordered	In Work		
Vac. Pump			One Complete				
Focus Current Regulator	Complete	Complete	Complete	Complete	One Complete	One Complete	
20 K. V.	Complete	Complete	Complete	One Complete	One Complete		
"X" Defl. Amp.	Complete	In Work		Complete			
"Y" Defl. Amp.	Complete	Complete		Complete			

PHASE DIAGRAM FOR CABINET

ASSEMBLY	PRE DESIGN	DESIGN STATUS	RELEASED	PURCHASED PARTS	FABRICATION	ASSEMBLY	TEST AND REMARKS
1. Rack	Complete	Complete	Complete	1 Unit			
1. Monitor	Complete	Complete					
1. Monitor Control	Complete	To be done					
1. Video Amplifier	Complete	To be done					
1. Sweep Amplifier	Complete	To be done		In Work		In Work	
1. Tape Reader	Complete	To be done					
1. Transportape	Complete	Complete	Complete	Complete	In Work		
1. Reader	Complete	Complete		1 on hand		In Work	
1. Terminal Reader	Complete	In Work		Integral with reader			
1. Program Control	Complete	To be done					
1. Film Index Servo	Complete	In Work					
1. Scan Servo	Complete	In Work					
1. Servo Controller	Complete	In Work					
1. Scan Computer	Complete	In Work					
1. Power Supply	Complete	In Work					
2. Power Supply 300V	Complete	Complete		Complete	Complete for one	Complete for one	
2. Power Supply -300V	Complete	Complete		Complete	Complete for one	Complete for one	
1. Power Supply - General	Complete	In Work					
Cables	Complete	In Work					



PHOTOGRAPHIC RECTIFIER-PRINTER
WORK SCHEDULE AND PROGRESS CHART



Enclosure (3)